

### **Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the application.

### **Listing of Claims**

Claims 1-90 (cancelled)

91. (new) A chimeric receptor protein comprising a single polypeptide chain of amino acids, said protein comprising an amino acid sequence according to SEQ ID NO: 13 or conservative variants thereof and said protein having an intracellular loop 3 domain encoded by nucleotides 753-1130 of SEQ ID NO: 4 replaced with a sequence of amino acids of at least 15 amino acids in length derived from a corresponding intracellular loop 3 domain of an NPY1 receptor protein, wherein said chimeric receptor protein exhibits an NPY1 receptor functional response and mediates signal transduction via a G-protein system.

92. (new) A chimeric receptor protein according to claim 91, wherein said NPY1 receptor is a human NPY1 receptor.

93. (new) A chimeric receptor protein according to claim 91, wherein said replacement sequence of amino acids is of at least 21 amino acids in length and comprises amino acids 236 to 256 of SEQ ID NO: 2.

94. (new) A chimeric receptor protein according to claim 91 comprising the amino acid sequence of SEQ ID NO: 6.

95. (new) A chimeric receptor protein comprising a single polypeptide chain of amino acids, said protein comprising an amino acid sequence according to SEQ ID NO: 13 or conservative variants thereof and said protein having a C-terminal intracellular domain encoded by nucleotides 1343-1384 of SEQ ID NO: 4 replaced with a sequence of amino acids of at least 40 amino acids in length derived from a corresponding C-terminal intracellular domain of an NPY1 receptor protein, wherein said receptor protein exhibits an NPY5 receptor functional response and mediates signal transduction via a G-protein system.

96. (new) A receptor protein according to claim 95, wherein the NPY1 receptor is a human NPY1 receptor.

97. (new) A chimeric receptor protein according to claim 95, wherein said NPY1 C-terminal intracellular domain is encoded by nucleotides 1178-1351 of SEQ ID NO: 1.

98. (new) A chimeric receptor protein according to claim 95 comprising the amino acid sequence of SEQ ID NO: 9.